

AMENDMENT UNDER 37 C.F.R. § 1.116
U.S. Appln. No. 09/587,909

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. *(Previously presented)* A transmitting facility for a multipoint-to-point synchronous CDMA network, comprising a unit for generating a CDMA-coded information signal, said facility further comprising a unit for generating an acquisition signal and encoding said acquisition signal with an acquisition code which is different from said acquisition signal and which is not a CDMA communication code, the signal level of the acquisition signal being telemetrically adjustable, and a transmitter for transmitting the acquisition signal in the same transmission channel as the information signal.

2. *(Previously presented)* A receiving facility for a multipoint-to-point synchronous CDMA network, comprising a unit for receiving and detecting a CDMA-coded information signal and a unit for receiving and detecting an acquisition signal, wherein said unit for receiving and detecting an acquisition signal comprises a detector for detecting said acquisition signals with an acquisition code which is different from said acquisition signal and which is not a CDMA communication code, and a logical correlator for correlating at least two serially transmitted, identical acquisition signals, and an accumulator for accumulating the correlated acquisition signals, by means of which the detection of the acquisition signal can be carried out,

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the acquisition signal being transmitted in the same transmission channel as the information signal.

3. *(Currently amended)* An acquisition method for a multipoint-to-point synchronous CDMA network comprising at least two terminals and a center, the terminals transmitting CDMA-coded information signals and acquisition signals to the center, wherein in order to achieve synchronization, each of the terminals transmitting serially to the center at least two identical acquisition signals whose levels are telemetrically adjustable by the center and which are transmitted in the same transmission channel as the information signal, and said center detecting the acquisition signal with an acquisition code which is not a ~~CMDA-CDMA~~ communication code, logically correlating the detected acquisition signals and subsequently accumulating the correlated acquisition signals.

4. *(Previously presented)* A transmitting facility as claimed in claim 1, characterized in that the acquisition code is a Barker code.

5. *(Previously presented)* A receiving facility as claimed in claim 2, characterized in that at least two logical correlators and at least two accumulators are provided for detecting at least two acquisition signals with different time relations to the CDMA signals and/or for allowing the use of two or more acquisition codes.

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6. *(Previously presented)* A receiving facility as claimed in claim 2, characterized in that at least one matched filter serves to implement one or more correlators.

7. *(Previously presented)* A transmitting facility as claimed in claim 1, characterized in that the length of the acquisition code is shorter than the length of the CDMA communication code by at least a factor of five.

8. *(Previously presented)* A receiving facility as claimed in claim 2, characterized in that prior to or after the accumulation, squaring is performed.

9. *(Previously presented)* A method as claimed in claim 3, further comprising the steps of estimating the number of colliding terminals and using a plurality of different contention-resolving techniques.

10. *(Previously presented)* A method as claimed in claim 3, characterized in that the center is adapted to telemetrically specify the transmitted power of the acquisition signals of the terminals in such a way that the sum level of all simultaneously transmitted acquisition signals is at least 10 dB lower than the sum level of all simultaneously transmitted information signals.

11. *(Previously presented)* A receiving facility as claimed in claim 2, characterized in that the acquisition code is a Barker code.

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12. *(Previously presented)* A method as claimed in claim 3, characterized in that the acquisition code is a Barker code.

13. *(Previously presented)* A receiving facility as claimed in claim 5, characterized in that at least one matched filter serves to implement one or more correlators.

14. *(Previously presented)* A receiving facility as claimed in claim 2, characterized in that the length of the acquisition code is shorter than the length of the CDMA communication code by at least a factor of five.

15. *(Previously presented)* A method as claimed in claim 3, characterized in that the length of the acquisition code is shorter than the length of the CDMA communication code by at least a factor of five.

16. *(Previously presented)* A method as claimed in claim 3, characterized in that prior to or after the accumulation, squaring is performed.

17. *(Currently amended)* A receiving facility for a multipoint-to-point synchronous CDMA network-~~(NET)~~, comprising a unit for receiving and detecting a CDMA-coded information signal and a unit for receiving and detecting an acquisition signal, wherein said unit

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for receiving and detecting an acquisition signal comprises a detector for detecting said acquisition signal with an acquisition code which is different from said acquisition signal and which is not a CDMA communication code, a logical correlator for correlating at least two serially transmitted, identical acquisition signals, and an accumulator for accumulating the correlated acquisition signals, by means of which the detection of the acquisition signal can be carried out, the acquisition signal being transmitted in the same transmission channel as the information signal, and the signal level of the acquisition signal being telemetrically adjustable.